FORM PTO-1449 (REV.7-80) S.S. DEPARTMENT OF COMMERCE

ATTY. DOCKET NO. 501178.01

APPLICATION NO. 10/601,104

JAN 9 7 2005

INFORMATION DISCLOSURE STATEMENT

APPLICANT(S)
Terry R. Lee et al.

FILING DATE
June 19, 2003

GROUP ART UNIT 2186

U.S. PATENT DOCUMENTS

				PATENT DOCUMENTS	1	1	
•EXALUNER KVIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
(1)	AA	4,707,823	11/17/87	Holdren et al.	370	1	
	AB	4,930,128	05/29/90	Suzuki et al.	371	12	
	AC	5,241,506	08/31/93	Motegi et al.	365	210	
	AD	5,243,703	09/07/93	Farmwald et al.	395	325	
	ΑE	5,269,022	12/07/93	Shinjo et al.	395	700	
,	AF	5,317,752	05/31/94	Jewett et al.	395	750	
	AG	5,319,755	06/07/94	Farmwald et a.	395	325	
	AH	5,355,391	10/11/94	Horowitz et al.	375	36	
	Al	5,432,823	07/11/95	Gasbarro et al.	375	356	·
	ΑJ	5,465,229	11/07/95	Bechtolsheim et al.	345	477	
ŀ	AK	5,502,621	03/26/96	Schumacher et al.	361	760	
	AL	5,566,325	10/15/96	Bruce, II et al.	395	494	
	AM	5,577,220	11/19/96	Combs et al.	395	416	
	AN	5,581,767	12/03/96	Katsuki et al.	395	800	
	AO	5,606,717	02/25/97	Farmwald et al.	395	856	
	AP	5,638,334	06/10/97	Farmwald et al.	365	230.03	
	AQ	5,715,456	02/03/98	Bennett et al.	395	652	
	AR	5,819,304	10/06/98	Nilsen et al.	711	5	
	AS	5,928,343	07/27/99	Farmwald et al.	710	104	
	ΑТ	5,973,935	10/26/99	Schoenfeld et al.	361	813	
	ΑÜ	5,973,951	10/26/99	Bechtolsheim et al.	365	52	
	ΑV	6,029,250	02/22/00	Keeth	713	400	•
	AW	6,061,296	05/09/00	Ternullo, Jr., et al.	365	233	
(m)	AX	6,098,158	08/01/00	Lay et al.	711	162	

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 501178.01

APPLICATION NO. 10/601,104

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(Use several sheets if necessary)

APPLICANT(S)
Terry R. Lee et al.

FILING DATE
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GROUP ART UNIT 2186

H.S.	PATENT	DOCU	MENTS

*EXAMINER INTIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AY	6,125,431	09/26/00	Kobayashi	711	154	IF APPROPRIATE
	AZ	6,175,571 B1	01/16/01	Haddock et al.	370	423	
	ВА	6,185,352 B1	02/06/01	Hurley	385	114	<u>.</u>
1	ВВ	6,247,107 B1	06/12/01	Christie	711.	216	
	вс	6,256,692 B1	07/03/01	Yoda et al.	710	104	
	BD	6,294,937 B1	09/25/01	Crafts et al.	327	158	
	BE	6,370,068 B2	04/09/02	Rhee	365	196	
	BF	6,401,213 B1	06/04/02	Jeddeloh	713	401	
	BG	6,430,696 B1	08/06/02	Keeth	713	503	
	вн	6,434,696 B1	08/13/02	Kang	713	2	
	ві	6,434,736 B1	08/13/02	Schaecher et al.	716	17	
	ВЈ	6,479,322 B2	11/12/02	Kawata et al.	438	109	
	вк	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
	BL	6,629,220 B1	09/30/03	Dyer	711	158	
	вм	6,646,929 B1	11/11/03	Moss et al.	365	194	
	BN	6,662,304 B2	12/09/03	Keeth et al.	713	400	
	во	6,667,895 B2	12/23/03	Jang et al.	365	63	
	ВР	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
	ВQ	6,724,685 B2	04/20/04	Braun et al.	365	233	
	BR	6,735,679 B1	05/11/04	Herbst et al.	711	167	
N	ps	6,745,275 B2	06/01/04	Chang	710	305	
Ch	ВТ	6,75) ,703 B2	06/15/04	Chilton	711	113	

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[h]	BU	6,756,661 B2	06/29/04	Tsuneda e	et al.	257	673		
	в٧	6,771,538 B2	08/03/04	Shukuri et	t al.	365	185.05		
	вw	6,792,059 B2	09/14/04	Yuan et al		375	354		
	вх	6,799,246 B1	09/28/04	Wise et al	•	711	117		
	вү	6,804,764 B2	10/12/04	LaBerge e	et al.	711	170		
	BZ	6,807,630 B2	10/19/04	Lay et al.		713	2		
	CA	6,816,947 B1	11/09/04	Huffman		711	151		
	СВ	2001/0039612 A1	11/08/01	Lee		713	2		
	СС	2002/0116588 A1	08/22/02	Beckert et	t al.	711	161		
	CD	2003/0043158 A1	03/06/03	Wasserma	an et al.	345	545		
	CE	2003/0093630 A1	05/15/03	Richard e	t al.	711	154		
	CF	2003/0163649 A1	08/28/03	Kapur et a	al.	711	146		
	CG	2003/0177320 A1	09/18/03	Sah et al.		711	158		
M	фH	2003/0193927 A1	10/16/03	Hronik		370	351		
Tim	CI	2004/0022094 A1	02/05/04	Radhakris	shnan et al.	365	200		
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(b)	×)	Intel, "Flash Me September, 1997	•	dd-In Card	for Embedded Sys	tems", Ap	plication Note	AP-75	8,
11.	ÉM.	Shanley, T. et al	., "PCI Syste	em Architec	cture", Third Edition	on, Mindsh	are, Inc., 1995	, pp. 2	4-25

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FORM PTO-J 44 (REV.7-80)	9		I.S. DEPARTMENT ATENT AND TRAD		ATTY, DOCKET NO. 501178.01			JCATION NO. 601,104	
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	АА	4,045,781	08/30/77	Levy et al		364		200	
	AB	4,240,143	12/16/80	Besemer e	et al.	364		200	
	AC	4,245,306	01/13/81	Besemer e	et al.	364		200	
	AD	4,253,144	02/24/81	Bellamy e	et al.	364		200	
	AE	4,253,146	02/24/81	Bellamy e	et al.	364	•	200	
·	AF	4,724,520	02/09/88	Athanas e	t al.	364		200	
	AG	5,461,627	10/24/95	Rypinski		370		95.2	
-	АН	5,479,370	12/26/95	Furuyama	et al.	365		189.12	
	Al	5,729,709	03/17/98	Harness		395		405	
	AJ	5,832,250	11/03/98	Whittaker		395		471	
	AK	5,966,724	10/12/99	Ryan		711		105	

AF AG	4,724,520	02/09/88	Athanas et a	1	364	200	
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	5,461,627	10/24/95	Rypinski		370	95.2	
АН	5,479,370	12/26/95	Furuyama et	t al.	365	189.12	
ΑI	5,729,709	03/17/98	Harness		395	405	
ĄJ	5,832,250	11/03/98	Whittaker		395	471	
AK	5,966,724	10/12/99	Ryan		711	105	
AL	5,978,567	11/02/99	Rebane et al.		395	200.49	
AM	6,023,726	02/08/00	Saksena		709	219	
AN	6,076,139	06/13/00	Welker et al.	•	711	104	
AO	6,191,663 B1	02/20/01	Hannah		333	17.3	
AP	6,249,802 B1	06/19/01	Richardson e	et al.	709	200	
AQ	6,405,280 B1	06/11/02	Ryan		711	105	
AR	6,438,622 B1	08/20/02	Haghighi et a	al.	710	1	
AS	6,449,308 B1	09/10/02	Knight, Jr. et	t al.	375	212	
AT	6,453,393 B1	09/17/02	Holman et al	1.	711	154	
ΑU	6,501,471 B1	12/31/02	Venkatarama	an et al.	345	424	
ΑV	6,594,722 B1	07/15/03	Willke, II et	al.	710	313	
AW	6,598,154 B1	07/22/03	Vaid et al.		712	237	
AX	6,615,325 B2	09/02/03	Mailloux et a	al.	711	154	
AY	6,628,294 B1	09/30/03	Sadowsky et	t al.	345	568	
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	AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW	AI 5,729,709 AJ 5,832,250 AK 5,966,724 AL 5,978,567 AM 6,023,726 AN 6,076,139 AO 6,191,663 B1 AP 6,249,802 B1 AQ 6,405,280 B1 AR 6,438,622 B1 AS 6,449,308 B1 AT 6,453,393 B1 AU 6,501,471 B1 AV 6,594,722 B1 AW 6,598,154 B1 AX 6,615,325 B2 AY 6,628,294 B1	AI 5,729,709 03/17/98 AJ 5,832,250 11/03/98 AK 5,966,724 10/12/99 AL 5,978,567 11/02/99 AM 6,023,726 02/08/00 AN 6,076,139 06/13/00 AO 6,191,663 B1 02/20/01 AP 6,249,802 B1 06/19/01 AQ 6,405,280 B1 06/11/02 AR 6,438,622 B1 08/20/02 AS 6,449,308 B1 09/10/02 AT 6,453,393 B1 09/17/02 AU 6,501,471 B1 12/31/02 AV 6,594,722 B1 07/15/03 AW 6,598,154 B1 07/22/03 AX 6,615,325 B2 09/02/03 AY 6,628,294 B1 09/30/03	AI 5,729,709 03/17/98 Harness AJ 5,832,250 11/03/98 Whittaker AK 5,966,724 10/12/99 Ryan AL 5,978,567 11/02/99 Rebane et al AM 6,023,726 02/08/00 Saksena AN 6,076,139 06/13/00 Welker et al AO 6,191,663 B1 02/20/01 Hannah AP 6,249,802 B1 06/19/01 Richardson AQ 6,405,280 B1 06/11/02 Ryan AR 6,438,622 B1 08/20/02 Haghighi et AS 6,449,308 B1 09/10/02 Knight, Jr. et AT 6,453,393 B1 09/17/02 Holman et al AU 6,501,471 B1 12/31/02 Venkataram AV 6,594,722 B1 07/15/03 Willke, II et AW 6,598,154 B1 07/22/03 Vaid et al. AX 6,615,325 B2 09/02/03 Mailloux et AY 6,628,294 B1 09/30/03 Sadowsky e	AI 5,729,709 03/17/98 Harness AJ 5,832,250 11/03/98 Whittaker AK 5,966,724 10/12/99 Ryan AL 5,978,567 11/02/99 Rebane et al. AM 6,023,726 02/08/00 Saksena AN 6,076,139 06/13/00 Welker et al. AO 6,191,663 B1 02/20/01 Hannah AP 6,249,802 B1 06/19/01 Richardson et al. AQ 6,405,280 B1 06/11/02 Ryan AR 6,438,622 B1 08/20/02 Haghighi et al. AS 6,449,308 B1 09/10/02 Knight, Jr. et al. AT 6,453,393 B1 09/17/02 Holman et al. AU 6,501,471 B1 12/31/02 Venkataraman et al. AV 6,594,722 B1 07/15/03 Willke, II et al. AX 6,615,325 B2 09/02/03 Mailloux et al. AY 6,628,294 B1 09/30/03 Sadowsky et al.	AI 5,729,709 03/17/98 Harness 395 AJ 5,832,250 11/03/98 Whittaker 395 AK 5,966,724 10/12/99 Ryan 711 AL 5,978,567 11/02/99 Rebane et al. 395 AM 6,023,726 02/08/00 Saksena 709 AN 6,076,139 06/13/00 Welker et al. 711 AO 6,191,663 B1 02/20/01 Hannah 333 AP 6,249,802 B1 06/19/01 Richardson et al. 709 AQ 6,405,280 B1 06/11/02 Ryan 711 AR 6,438,622 B1 08/20/02 Haghighi et al. 710 AS 6,449,308 B1 09/10/02 Knight, Jr. et al. 375 AT 6,453,393 B1 09/17/02 Holman et al. 711 AU 6,501,471 B1 12/31/02 Venkataraman et al. 345 AV 6,594,722 B1 07/15/03 Willke, II et al. 710 AX 6,615,325 B2 09/02/03 Mailloux et al. 711 AY 6,628,294 B1 09/30/03 Sadowsky et al. 345 DATE CONSIDERED	AI 5,729,709 03/17/98 Harness 395 405 AJ 5,832,250 11/03/98 Whittaker 395 471 AK 5,966,724 10/12/99 Ryan 711 105 AL 5,978,567 11/02/99 Rebane et al. 395 200.49 AM 6,023,726 02/08/00 Saksena 709 219 AN 6,076,139 06/13/00 Welker et al. 711 104 AO 6,191,663 B1 02/20/01 Hannah 333 17.3 AP 6,249,802 B1 06/19/01 Richardson et al. 709 200 AQ 6,405,280 B1 06/11/02 Ryan 711 105 AR 6,438,622 B1 08/20/02 Haghighi et al. 710 1 AS 6,449,308 B1 09/10/02 Knight, Jr. et al. 375 212 AT 6,453,393 B1 09/17/02 Holman et al. 711 154 AU 6,501,471 B1 12/31/02 Venkataraman et al. 345 424 AV 6,594,722 B1 07/15/03 Willke, II et al. 710 313 AW 6,598,154 B1 07/22/03 Vaid et al. 712 237 AX 6,615,325 B2 09/02/03 Mailloux et al. 345 568 DATE CONSIDERED

FORM PTO:1449 (REV.7-80)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. APPLICATION NO. 501178.01 10/601,104

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Terry R. Lee et al.

FILING DATE GROUP ART UNIT
June 19, 2003 2186

•EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
$(\sim$	ΑZ	6,658,509 B1	12/02/03	Bonella et al.	710	100	
	ВА	6,697,926 B2	02/24/04	Johnson et al.	711	167	
	вв	6,718,440 B2	04/06/04	Maiyuran et al.	711	137	
	вс	6,728,800 B1	04/27/04	Lee et al.	710	54	·
	BD	6,735,682 B2	05/11/04	Segelken et al.	711	220	
	BE	6,754,812 B1	06/22/04	Abdallah et al.	712	234	
	BF	6,760,833 B1	07/06/04	Dowling	712	34	
,	ВG	6,775,7.47 B2	08/10/04	Venkatraman	711	137	
	вн	6,789,173 B1	09/07/04	Tanaka et al.	711	147	
	ВІ	6,792,496 B2	09/14/04	Aboulenein et al.	710	306	
	BJ	6,795,899 B2	09/21/04	Dodd et al.	711	137	
	вк	6,799,268 B1	09/28/04	Boggs et al.	712	228	
	BL	6,804,760 B2	10/12/04	Wiliams	711	170	
	ВМ	6,820,181 B2	11/16/04	Jeddeloh et al.	711	169	
	BN	6,823,023 B1	11/23/04	Hannah	375	296	
	во	6,845,409 B1-	01/18/05	Talagala et al.	710	20	
5	ВР	2003/0149809 A1	08/07/03	Jensen et al.	710	22	
m)	ВQ	2004/0236885 A1	11/25/04	Fredriksson et al.	710	100	
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11/	AA	4,953,930	09	/04/90	Ramsey e	t al.	385	14			
Y	AB	5,987,196	11	/16/99	Noble		385	14			
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	AE	6,811,320	11	/02/04	Abbott	·	385	58			
	AF	6,821,029	11	/23/04	Grung et	al.	385	92		_	
	AG	2004/0126115	07	/01/04	Levy et al		398	116	5		·
	AH	2004/0144994	07	/29/04	Lee et al.		257	200			
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FORM PTO-1449 (REV.7-80) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 501178.01

APPLICATION NO. 10/601,104

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Terry R. Lee et al.

FILING DATE
June 19, 2003

GROUP ART UNIT
Not yet assigned

U.S. PATENT DOCUMENTS

			0.3.	PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,251,303	10/05/93	Fogg, Jr. et al.	395	275	
TRE	AB	5,432,907	07/11/95	Picazo, Jr. et al.	395	200	
3 2003	ن AC	5,442,770	08/15/95	Barratt	395	403	
1-210 200	ز AD	5,497,476	03/05/96	Oldfield et al.	395	439	
COADE LEER	AE	5,659,798	08/19/97	Blumrich et al.	395	846	
	АF	5,875,352	02/23/99	Gentry et al.	395	843	
	АG	6,061,263	05/09/00	Boaz et al.	365	51	
	АН	6,073,190	06/06/00	Rooney	710	56	
	Al	6,105,075	08/15/00	Ghaffari	710	5	
	AJ	6,137,709	10/24/00	Boaz et al.	365	51	
	AK	6,144,587	11/07/00	Yoshida	365	189.05	
	AL	6,167,465	12/26/00	Parvin et al.	710	22	_,
	AM	6,167,486	12/26/00	Lee et al.	711	120	
	AN	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
	AO	6,233,376 B1	05/15/01	Updegrove	385	14	
	AP	6,243,769 B1	06/05/01	Rooney	710	56	
	AQ .	6,285,349 B1	09/04/01	Smith	345	147	
	AR	6,301,637 B1	10/09/01	Krull et al.	711	112	
	AS	6,327,642 B1	12/04/01	Lee et al.	711	120	
	AT	6,330,205 B2	12/11/01	Shimizu et al.	365	230.06	
	AU	6,347,055 B1	02/12/02	Motomura	365	189.05	
	ΑV	6,349,363 B2	02/19/02	Cai et al.	711	129	
1	J,w	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
11/	AX	6,367,074 B 1	04/02/02	Bates et al.	717	11	

EXAMINER

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FORM PTO-1449	
(REV.7-80)	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 501178.01

APPLICANT(S)

APPLICATION NO. 10/601,104

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Terry R. Lee et al.

FILING DATE
June 19, 2003

GROUP ART UNIT
Not yet assigned

211	PATENT	DOCUM	ENTS

EXAM	NER AL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		AY	6,373,777 B1	04/16/.02	Suzuki	365	230.03	_
	·)	AZ	6,381,190 B1	04/30/02	Shinkai	365	230.03	
T 2 3	2003	ĘΑ	6,421,744 B1	07/16/02	Morrison et al.	710	22	
		BB	6,434,639 B1	08/13/02	Haghighi	710	39	
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		BD	6,470,422 B2	10/22/02	Cai et al.	711	129	
		BE	6,473,828 B1	10/29/02	Matsui	711	104	
		BF	6,477,614 B1	11/05/02	Leddige et al.	711	5	
		BG	6,477,621 B1	11/05/02	Lee et al.	711	120	
		вн	6,496,909 B1	12/17/02	Schimmel	711	163	
		BI	6,505,287 B2	01/07/03	Uematsu	711	170	
		ВЈ	6,539,490 B1	03/25/03	Forbes et al.	713	401	
		вк	6,552,564 B1	04/22/03	Forbes et al.	326	30	
		BL	6,587,912 B2	07/01/03	Leddige et al.	711	5	
1		ВМ	6,594,713 B1	07/15/03	Fuoco et al.	710	31	
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Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM, Micron Technology, Inc., 2002, pp. 1-23.

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Cash	АА	6,067,262	05/23/00	Irrinki et a	ıl.	365	201		
y X	АВ	6,246,618 B1	06/12/01	Yamamot	o et al.	365	200		
	AC	6,590,816 B2	07/08/03	Perner		365	200		
	AD	2003/0043426 A1	03/06/03	Baker et a	1.	359	109		
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. 501178.01

APPLICATION NO. 10/601,104

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APPLICANT(S) Terry R. Lee et al.

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Li	\sim	AA	5,818,844	10/06/98	Singh et al.	370	463	
		AB	6,272,609	08/07/01	Jeddeloh	711	169	:
		AC	6,477,592	11/05/02	Chen et al.	710	52	
		AD	6,523,092	02/18/03	Fanning	711	134	
		ΑE	6,523,093	02/18/03	Bogin et al.	711	137	
		۸F	6,622,227	09/16/03	Zumkehr et al.	711	167	
		AG	6,631,440	10/07/03	Jenne et al.	711	105	
		ΑН	2002/0144064	10/03/02	Fanning	711	144	
		ΑI	2003/0005223	01/02/03	Coulson et al.	711	118	
	! \	AJ	2003/0229770	12/11/03	Jeddeloh	711	213	

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•							YES	NO
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Intel, "Intel 840 Chipset: 82840 Memory Controller Hub (MCH)", Datasheet, October 1999,

pp. 1-178

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conformance and not considered. Include copy of this form with next communication to applicant(s).

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(h)	АА	5,544,319	08/06/96	Acton et a	1.	395		200.07	
]	AB	5,822,255	10/13/98	Uchida		365		194	
	AC	5,875,454	02/23/99	Craft et al	•	711		113	
	AD	6,033,951	03/07/00	Chao		438		253	
	AE	6,079,008	06/20/00	Clery, III		712		11	
	AF	6,186,400 B1	02/13/01	Dvorkis e	t al.	235		462.45	
	AG	6,243,831 B1	06/05/01	Mustafa e	t al.	714		24	:
	АН	6,256,692 B1	07/03/01	Yoda et al	· .	710		104	
	AI	6,392,653 B1	05/21/02	Malandair	n et al.	345		501	
	AJ.	6,438,668 B1	08/20/02	Esfahani e	et al.	711		165	
h	AK	6,636,110 B1	10/21/03	Ooishi et	al	327		565	
(6)	AL	6,681,292 B2	01/20/04	Creta et al		711		119	
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